

## EAST Search History

| Ref # | Hits    | Search Query                                      | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|---------|---|---|------------------|---------|------------------|
| S1    | 3       | ((("6567688") or ("6031862") or ("6104942"))).PN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR               | OFF     | 2005/09/02 15:16 |
| S2    | 63      | (600/430).CCLS.                                   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR               | OFF     | 2005/09/05 14:39 |
| S3    | 211661  | microwave   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/09/05 14:40 |
| S4    | 486     | thermoacoustic                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/09/05 14:40 |
| S5    | 641564  | tissue or breast or cancer or tumor or lesion     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/09/05 14:41 |
| S6    | 1968155 | frequency   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/09/05 14:41 |
| S7    | 2834691 | imag\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/09/05 14:41 |
| S8    | 17      | S3 and S4 and S5 and S6 and S7                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/09/05 16:09 |
| S9    | 415     | adaptive adj (beamforming or beamformation)       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/09/05 17:51 |
| S10   | 1       | S8 and S9   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/09/05 16:10 |
| S11   | 9       | S9 and S3 and S5                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/09/05 16:10 |

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|-----|---------|--|---|----|----|------------------|
| S12 | 1519485 | sensor   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/05 16:43 |
| S13 | 303676  | steer\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/05 16:43 |
| S14 | 814018  | array  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/05 16:43 |
| S15 | 116     | S9 and S12 and S13 and S14                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/05 16:44 |
| S16 | 382813  | vector   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/05 16:44 |
| S17 | 54      | S9 and S12 and (S13 with S16) and S14            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/05 16:44 |
| S18 | 53      | S9 and (S12 same S14) and (S13 with S16) and S14 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/05 16:45 |
| S19 | 52      | S9 and (S12 with S14) and (S13 with S16) and S14 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/05 16:46 |
| S20 | 1236    | adaptive adj signal adj process\$3               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/05 16:47 |
| S21 | 13      | S19 and S20                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/05 16:47 |

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| S22 | 269     | (jian with li).in. or (gang with wang).in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/05 17:52 |
| S23 | 8       | S22 and gainesville  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/09/05 17:52 |
| S24 | 8173    | (therm\$4 near3 acoustic) or thermoacoustic or<br>(thermally-induced near3 acoustic) or thermoelastic  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/02 16:09 |
| S25 | 697237  | tissue or breast or mammary or mammograph\$3 or tumor or<br>tumorous or cancer or cancerous or lesion or malignant or<br>benign or carcinoma | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/02 16:10 |
| S26 | 2958534 | imag\$3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/02 16:10 |
| S27 | 220764  | microwave  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/02 16:11 |
| S28 | 4236    | ultrawideband or uwb or (ultra adj wideband) or (ultrawide adj<br>band) or (ultra adj wide adj band)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/02 16:13 |
| S29 | 2049613 | frequency  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/02 16:13 |
| S30 | 2186496 | multiple or swept or spanning or spans or sweeps   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/03 11:25 |
| S31 | 2       | (S25 with S26) and (S24 same S27 same S28)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/03 09:26 |

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|     |         |  |   |    |     |                  |
|-----|---------|--|---|----|-----|------------------|
| S32 | 21      | (S25 with S26) and (S24 same S27)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/03/02 16:15 |
| S33 | 3       | ("6567688").URPN.  | USPAT   | OR | ON  | 2006/03/02 16:31 |
| S34 | 6       | ("20020018510"   "4325257"   "4385634"   "5713356"   "6104942"   "6216025").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/03/02 16:31 |
| S35 | 8173    | (therm\$4 near3 acoustic) or thermoacoustic or (thermally-induced near3 acoustic) or thermoelastic                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/03/03 09:26 |
| S36 | 697237  | tissue or breast or mammary or mammograph\$3 or tumor or tumorous or cancer or cancerous or lesion or malignant or benign or carcinoma | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/03/03 09:26 |
| S37 | 2958534 | imag\$3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/03/03 09:26 |
| S38 | 220764  | microwave  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/03/03 09:26 |
| S39 | 4236    | ultrawideband or uwb or (ultra adj wideband) or (ultrawide adj band) or (ultra adj wide adj band)                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/03/03 09:26 |
| S40 | 2       | (S36 with S37) and (S35 same S38 same S39)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/03/03 09:27 |
| S41 | 385     | S37 and S38 and S39  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/03/03 09:27 |
| S42 | 37      | (S37 with S38) and S39   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/03/03 10:36 |
| S43 | 1       | ("5757320").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2006/03/03 10:36 |
| S44 | 34      | ("5757320").URPN.  | USPAT   | OR | ON  | 2006/03/03 10:39 |

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|     |         |   |   |    |    |                  |
|-----|---------|---|---|----|----|------------------|
| S45 | 57      | ("3278843"   "3569971"   "3710387"   "3720950"   "3721978"   "3750125"   "3828348"   "3858205"   "3967282"   "3971990"   "3996589"   "4003051"   "4015264"   "4041382"   "4063238"   "4067225"   "4068233"   "4072942"   "4086528"   "4087754"   "4125835"   "4126860"   "4130796"   "4322678"   "4430653"   "4464622"   "4504833"   "4538149"   "4676100"   "4698634"   "4706031"   "4728897"   "4728953"   "4743906"   "4847552"   "4853617"   "4896116"   "4905008"   "4937580"   "4979186"   "4992741"   "5023484"   "5089704"   "5148175"   "5180969"   "5196826"   "5274271"   "5332938"   "5352974"   "5361070"   "5363108"   "5420589"   "5457394"   "5512834"   "5541605"   "5543799").PN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/03/03 10:39 |
| S46 | 16      | S35 and S39   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/03 10:57 |
| S47 | 8       | ("6104942").URPN.   | USPAT   | OR | ON | 2006/03/03 11:24 |
| S48 | 0       | S39 and S47   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/03 11:24 |
| S49 | 2186496 | multiple or swept or spanning or spans or sweeps  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/03 11:25 |
| S50 | 5       | S47 and S49   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/03/03 11:25 |